

Name: _____ Date: _____

Instructions

Do the following problems on a separate sheet of paper (or two, or three, or four). You are allowed to consult the course text, the class notes, and the notes posted on the course website. You are not, however, allowed to collaborate with other students. **Write the solutions neatly and do not use multiple columns.** Staple your write-up, using this paper as the cover page.

Problem 1 (4 points). Given $f(x) = 2\sqrt{3(x+3)}$, find the domain and range of f and graph it.

Problem 2 (4 points). Given $g(x) = \frac{5x^2 + 5}{x^2 + 4x + 4}$, find the domain and range of g and graph it.